

FEB 1 0 2005

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510(K) Summary

Date:

February 2, 2005

Submitted by: Carrie Hartill

Regeneration Technologies, Inc.

11621 Research Circle

P.O. Box 2650

Alachua, FL 32616-2650 386-418-8888 Telephone: 386-462-3821 Facsimile:

Proprietary Name:

REGENAFIL® Allograft Paste REGENAFIL® RT Allograft Paste OPTEFIL™ Allograft Paste, Syringe OPTEFIL™ RT Allograft Paste, Syringe OSTEOFIL® DBM Paste OSTEOFIL® RT DBM Paste RTI Allograft Paste

Common Name:

Bone Void Filler, Bone Graft Substitute

Classification Name:

Filler, Calcium Sulfate Preformed Pellets (per 21CFR section 888.3045)

Predicate Devices:

The current devices have the same indications as and are substantially equivalent to the Pro Osteon™ Implant 500R Resorbable Bone Graft Substitute.

Description:

These devices are bone paste products made by combining gelatin and demineralized bone matrix.

Indications for Use:

REGENAFIL® Allograft Paste; REGENAFIL® RT Allograft Paste; OPTEFILTM Allograft Paste, Syringe; OPTEFIL™ RT Allograft Paste, Syringe; OSTEOFIL® DBM Paste; OSTEOFIL® RT DBM Paste; and RTI Allograft Paste are indicated for bony voids or gaps that are not intrinsic to the stability of the bony structure. They are



indicated to be placed into bony voids or gaps of the skeletal system (e.g., the extremities, spine and pelvis). These defects may be surgically created osseous defects or osseous defects created from traumatic injury to the bone. The product provides a bone graft substitute that remodels into the recipient's skeletal system.

Summary of Technological Characteristics:

These devices are composed of allograft demineralized bone in a gelatin carrier matrix. These devices have been screened for osteoinductivity in an *in vivo* assay¹ and also provide a scaffold for osteoconduction. The processed coral in the Pro Osteon® Implant 500R Resorbable Bone Graft Substitute provides a scaffold for osteoconduction.

Non-Clinical Performance Data Supporting Substantial Equivalence Determination: Results from studies in animal models indicate that these products can be used as a bone graft substitute with equivalent or better healing results when compared to the predicate device. Healing was evaluated radiographically, histologically, and mechanically.

¹ DBM and finished product were screened for osteoinductivity in a rat assay. Findings from an animal model are not necessarily predictive of human clinical results.





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Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Regeneration Technologies, Inc C/o Ms. Carrie Hartill 11621 Research Circle P.O. Box 2650 Alachua, Florida 32616-2650

Re: K043420

Trade Name: REGENAFIL® Allograft Paste, REGENAFIL® RT Allograft Paste,

OPTEFILTM Allograft Paste, Syringe, OPTEFILTM RT Allograft Paste, Syringe, OSTEOFIL[®] DBM Paste, OSTEOFIL[®] RT DBM Paste and RTI

Allograft Paste

Regulation Number: 21 CFR 888.3045

Regulation Name: Reabsorbable calcium salt bone void filler device

Regulatory Class: II Product Code: MQV Dated: December 9, 2004 Received: December 13, 2004

Dear Ms. Hartill:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Celia M. Witten, Ph. D, M.D.

Director

Division of General,

Restorative and Neurological Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

Indications for Use

510(k) Number (if known): K043420

Device Name:

REGENAFIL® Allograft Paste
REGENAFIL® RT Allograft Paste
OPTEFIL™ Allograft Paste, Syringe
OPTEFIL™ RT Allograft Paste, Syringe
OSTEOFIL® DBM Paste
OSTEOFIL® RT DBM Paste
RTI Allograft Paste

Indications for Use:

Prescription Use X

These products are indicated for bony voids or gaps that are not intrinsic to the stability of the bony structure. They are indicated to be placed into bony voids or gaps of the skeletal system (e.g., the extremities, spine and pelvis). These defects may be surgically created osseous defects or osseous defects created from traumatic injury to the bone. The product provides a bone graft substitute that remodels into the recipient's skeletal system.

AND/OR

Over-The-Counter Use ___

(Part 21 CFR 801 Subpart D) (21 CFR 801 Subpart C) (PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE OF NEEDED)
Concurrence of CDRH, Office of Device Evaluation (ODE)
Mule Melleum
(Division Sign-Off)
Division of General, Restorative,
and Neurological Devices
K043420
510(k) Number